

## Transformation in homemade competent cells

### Materials

- LB medium
- Homemade competent *E. coli* cells

### Method

1. Add 100 ng DNA into a 30 ul competent *E. coli*. Mix gently. Do not mix by pipetting up and down.
2. Incubate tube vial on ice for 15 min
3. Heat-shock the cells for 5 min at 37°C without shaking
4. Immediately transfer the tubes back on ice for 2 min
5. Add 400 ul of room temperature LB medium
6. Cap tube tightly and shake tube horizontally 180 rpm, 37 °C for 1 hour
7. Plate from each tube 100 ul (more or less) on an agar plate containing antibiotics